Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-17 (Canceled).

- 18. (Currently amended) A method for producing a carrier for the determination of analytes, comprising:
 - (a) providing a microfluidic carrier,

synthesis of the biopolymeric receptors.

- (b) passing liquid with <u>biopolymer</u> receptor building blocks for synthesizing <u>biopolymeric</u> receptors over predetermined zones on the carrier.
- (c) immobilizing the <u>biopolymer</u> receptor building blocks in said predetermined zones on the carrier and
- (d) repeating steps (b) and (c) until the desired <u>biopolymeric</u> receptors have been synthesized <u>in -situ</u> in the predetermined zones <u>on the carrier</u> using the immobilized <u>biopolymer</u> receptor building blocks <u>from step (c)</u>, wherein hapten groups are applied to the carrier before, during or/and after the

 (Currently amended) The method according to claim 18, wherein said <u>biopolymer</u> receptor building blocks are immobilized using site and/or time specific immobilization.

- (Withdrawn/Currently amended) A method for the quality control of biopolymer_receptor syntheses on a carrier, comprising;
 - (a) providing a carrier,
 - (b) applying hapten groups to the complete surface of the carrier or a part thereof which comprises zones for <u>biopolymer</u> receptor synthesis and adjacent zones on which no receptor synthesis is to take place,
 - (c) carrying out a biopolymer receptor synthesis on the carrier.
 - (d) contacting the carrier with a hapten detection reagent which permits detection of hapten groups,
 - (e) evaluating the hapten group detection on the carrier and
 - (f) correlating the result of the evaluation with the quality or/and efficiency of the <u>biopolymer</u> receptor synthesis.
- 21. (Withdrawn/Currently amended) A method for the quality control of <u>biopolymer</u> receptor syntheses, comprising:
 - (a) providing a carrier,
 - (b) carrying out a <u>biopolymer</u> receptor synthesis on the carrier, wherein hapten groups are incorporated during the synthesis into the <u>biopolymer</u> receptor molecules at predetermined positions,
 - (c) contacting the carrier with a hapten detection reagent which permits

- detection of hapten groups,
- (d) evaluating the hapten group detection on the carrier and
- correlating the results of the evaluation with the quality or/and efficiency of the biopolymer receptor synthesis.
- (Previously presented) The method according to claim 18, wherein said carrier is a microfluidic carrier with channels and said predetermined zones are in said channels.
- (Previously presented) The method according to claim 22, wherein said channels are closed channels.
- 24. (Canceled)
- 25. (Currently amended) The method according to claim 24.18, wherein said biopolymers are selected from the group consisting of nucleic acids, nucleic acid analogs, proteins, peptides and carbohydrates.
- (Currently amended) The method according to claim 18, wherein the <u>biopolymeric_receptors</u> are selected from the group consisting of nucleic acids and nucleic acid analogs.
- (Currently amended) The method according to claim 18, wherein a carrier
 is produced with a plurality of different biopolymer receptor zones.
- (Currently amended) The method according to claim 27, wherein the carrier has at least 50 different <u>biopolymer</u> receptor zones.
- (Currently amended) The method according to claim 27, wherein the carrier has at least 100 different biopolymer receptor zones.

- 30. (Previously presented) The method according to claim 18, wherein the hapten groups are organic molecules having a molecular weight of up to 2,000, which are recognized by a high affinity specific binding partner.
- 31. (Previously presented) The method according to claim 30, wherein the hapten groups are selected from digoxin, digoxigenin, dinitrophenol, biotin and biotin analogs.
- 32. (Currently amended) The method according to claim 18, wherein the hapten groups are applied to the complete surface of the carrier or a part thereof which comprises zones for <u>biopolymer</u> receptor synthesis and adjacent zones on which no receptor synthesis is to take place.
- (Currently amended) The method according to claim 18, wherein the hapten groups are applied selectively onto respective single zones or groups of zones for the <u>biopolymer</u> receptor synthesis.
- (Previously presented) The method according to claim 18, wherein the hapten groups are applied directly to the surface of the carrier.
- 35. (Currently amended) The method according to claim 18, wherein the hapten groups are inserted into spacer molecules which are disposed between the carrier surface and the <u>biopolymer</u>-receptors.
- 36. (Currently amended) The method according to claim 18, wherein the hapten groups are inserted at one or more positions into the biopolymer-receptors synthesized on the carrier.

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- (Previously presented) The method according to claim 18, wherein the hapten groups are applied reversibly.
- (Previously presented) The method according to claim 18, wherein the hapten groups are applied irreversibly.